

AMENDMENT TO THE CLAIMS

Please replace the pending claims with the following amended claims:

- 1-26. (Cancelled)
27. (Currently Amended) A fuel cell comprising:
an electrolyte having a first side;
a manifold cover that is ~~in contact with~~ coupled to the electrolyte to form, ~~the manifold cover and electrolyte together forming two manifolds~~, a first manifold including an anode, a second manifold including a cathode, the two manifolds both on the first side of the electrolyte, the anode and the cathode also on the first side of the electrolyte and configured to cause ions to conduct such that the predominant ion flow is between the anode on the first side of the electrolyte and the cathode on the first side of the electrolyte.
28. (Previously Presented) The fuel cell of claim 27 further comprising:
fuel in the first manifold; and,
oxidizer in the second manifold.
29. (Original) The fuel cell of claim 27 wherein the anode and the cathode are in a first plane, the first plane approximately parallel to the first side of the electrolyte.
30. (Original) The fuel cell of claim 29 wherein the manifold is a separating manifold that includes a perpendicular section that separates the cathode and the anode such that an edge of the cathode closest to the perpendicular section and an edge of the anode closest to the perpendicular section are separated by less than 1000 micrometers.

31. (Original) The fuel cell of claim 30 wherein an edge of the cathode furthest from the perpendicular section and an edge of the anode furthest from the perpendicular section is approximately the sum of (1) the distance separating the closest points on the anode the cathode and (2) the width of the cathode and (3) the width of the anode.

32. (Original) The fuel cell of claim 27 wherein the first side of the electrolyte is a plane, the anode and the cathode both mounted on the first side of the electrolyte.

33. (Original) The fuel cell of claim 27 wherein the thickness of the electrolyte exceeds 10 micrometers and a distance separating at least one point on the anode and at least point on the cathode is less than 50 micrometers.

34. (Original) The fuel cell of claim 27 wherein the first side of the electrolyte includes a first indentation and a second indentation, the first indentation including the anode, the second indentation including the cathode.

35. (Currently Amended) A fuel cell comprising:
an electrolyte having a first side;
a manifold cover that is ~~in contact with~~ coupled to the electrolyte to form,
~~the manifold cover and electrolyte together forming~~ two manifolds including a first manifold and a second manifold, the first manifold including an anode, the second manifold including a cathode, the two manifolds both on the first side of the electrolyte, the first manifold formed from a first indentation in the first side of the electrolyte and the second manifold formed from a second indentation in the first side of the electrolyte, the anode and cathode formed such that a bend in the anode is approximately equal to or greater than 90 degrees but is less than 180 degrees and a corresponding bend in the cathode is approximately equal to or greater than 90 degrees but is less than 180 degrees.

36. (Original) The fuel cell of claim 34 wherein the manifold is a planar manifold cover, the manifold in contact with an edge of the first indentation and an edge of the second indentation such that the first indentation forms the first chamber and the second indentation forms the second chamber.

37. (Original) The fuel cell of claim 36 wherein the thickness of the electrolyte exceeds 10 micrometers and a distance separating at least one point on the anode and at least point on the cathode is less than 50 micrometers.

38. (Original) The fuel cell of claim 34 wherein the cathode including at least one cathode bend, the cathode bend having an angle of approximately 90 degrees, the anode also including at least one corresponding anode bend, the anode bend having an angle of approximately 90 degrees.

39. (Cancelled)

40. (Previously Presented) The fuel cell of claim 27 wherein the electrolyte is a continuous planar electrolyte.

41. (Previously Presented) The fuel cell of claim 40 wherein the electrolyte is sufficiently thick to serve as a substrate for the fuel cell.

42. (Previously Presented) The fuel cell of claim 41 wherein multiple fuel cells are formed on the continuous planar electrolyte.

43. (Previously Presented) The fuel cell of claim 27 further comprising:
oxidizer in the first manifold; and,
fuel in the second manifold.

44. (Previously Presented) The fuel cell of claim 27 wherein the predominant ion flow represents over 50% of the ion flow from the anode to the cathode.

45. (Previously Presented) The fuel cell of claim 27 wherein the anode includes a wider side and a narrower side and the cathode also includes a wider side and a narrower side, the predominant ion flow propagating from a wider surface of the anode into the first side of the electrolyte and from the first side of the electrolyte into a wider surface of the cathode.